## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION		see Form PCT/ISA/220 s, where applicable, item 5 below.  (Earliest) Priority Date (day/month/year)
nternational application No.	International filing date (day/m 26.03.200	nonth/year) 14	26.03.2003
Applicant SHOWA DENKO K.K.			
This international search report has been to Article 18. A copy is being transmit	n prepared by this International Sea tted to the International Bureau.	arching Authori	ry and is transmitted to the applicant according
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the international s this Authority (Ri b. With regard to any nucl  Certain claims were for the difference of the company of th	earch was carried out on the basis ale 23.1(b)).  eotide and/or amino acid sequence ound unsearchable (See Box II)	of a translation	e basis of the international application in the of the international application furnished to the international application, see Box No. I.
5. With regard to the abstract, the text is approved the text has been esta	as submitted by the applicant. blished, according to Rule 38.2(b	o), by this Autho	ority as it appears in Box No. IV. The applicant search report, submit comments to this Authority.
6. With regard to the drawings,  a. the figure of the drawings  as suggested by  as selected by		act is Figure Nicant failed to so	No1

### INTERNATIONALSEARCHREPORT

International application No.

PCT/JP2004/004289

#### CLASSIFICATIONOFSUBJECTMATTER B22D11/04,B22D11/00,B22D11/116,B22D11/16,B22D11/126,C22C21/04,B21C1/00 Int.Cl 7 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) FIELDS SEARCHED B22D11/04,B22D11/00,B22D11/116,B22D11/16,B22D11/126,C22C21/04,B21C1/00 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Japanese Gazette Japanese Registered Utility Model Gazette 1994-2004, Applications 1971-2004, Containing the Utility Model 1996-2004 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category\* 20-22 JP 64-39339 A(Kobe Steel, Ltd.), 1989.02.09, Y claim1,table1,page5 column2 line3-6 (Family:None) JP 63-104751 A(SHOWA DENKO K.K.),1988.05.10, 20-22 figure1, page6 column3 line10-page8 column4 Y line14 (Family:None) 1-22 JP 59-193238 A (Kobe Steel, Ltd.), 1984.11.01, Α claim1, table1 (Family: None) See patent family annex. Further documents are listed in the continuation of Box C. later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "E" earlier application or patent but published on or after the international filing date document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such according to the combined with one or more other such documents, such document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other is cited to each form special reason (as specified) combination being obvious to a person skilled in the art "O" document referring to an oral disclosure, use, exhibition or other document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 29. 6. 2004 16.06.2004 8727 Authorized officer 4E Name and mailing address of the ISA/JP Noboru Nakazawa Japan Patent Office Telephone No. +81-3-3581-1101 Ext. 3425